L Number	Hits	Search Text	DB	Time stamp
-	441	(349/188-192).CCLS.	USPAT; US-PGPUB;	2004/03/11 14:45
-	0	(("349/188-192").CCLS.) and "in line system"	JPO USPAT; US-PGPUB; JPO	2001/11/29 14:28
-	0	(("349/188-192").CCLS.) and "in-line system"	USPAT;	2001/11/29 14:28
-	8	(("349/188-192").CCLS.) and "production line"	JPO ! USPAT; US-PGPUB; JPO	2001/11/29 14:30
_	2	(("349/188-192").CCLS.) and "assembly line"	USPAT; US-PGPUB; JPO	2001/11/29 14:31
-	5	(("349/188-192").CCLS.) and ("manufacturing line" "line of manufacture")	USPAT; US-PGPUB; JPO	2001/11/29 14:32
-	14	((("349/188-192").CCLS.) and "production line") ((("349/188-192").CCLS.) and "assembly line") ((("349/188-192").CCLS.) and ("manufacturing line" "line of	USPAT; US-PGPUB; JPO	2001/11/29 14:32
_	0	manufacture")) (((("349/188-192").CCLS.) and "production line") ((("349/188-192").CCLS.) and "assembly line") ((("349/188-192").CCLS.) and ("manufacturing line" "line of	USPAT; US-PGPUB; JPO	2001/11/29 14:33
-	10	manufacture"))) and ("spacer dispensing" "spacer dispersing") (((("349/188-192").CCLS.) and "production line") ((("349/188-192").CCLS.) and "assembly line") ((("349/188-192").CCLS.) and ("manufacturing line" "line of manufacture"))) and (machine apparatus	USPAT; US-PGPUB; JPO	2001/11/29 14:34
	478	station) (349/188-192).CCLS.	USPAT; US-PGPUB; JPO	2002/07/15 08:48
-	0	((349/188-192).CCLS.) and phillipsas.	USPAT; US-PGPUB; EPO; JPO	2002/07/15 08:49
-	. 0	((349/188-192).CCLS.) and phillips.as.	USPAT; US-PGPUB; EPO; JPO	2002/07/15 08:49
-	0	((349/188-192).CCLS.) and phillips.astx.	USPAT; US-PGPUB; EPO; JPO	2002/07/15 08:51
-	3	((349/188-192).CCLS.) and "deposit liquid crystal"	USPAT; US-PGPUB; EPO; JPO	2002/07/15 09:47
-	1	("6414733").PN.	USPAT; US-PGPUB; EPO; JPO	2002/07/15 09:47
-	4	(((349/188-192).CCLS.) and "deposit liquid crystal") (("6414733").PN.)	USPAT; US-PGPUB; EPO; JPO	2002/07/16 08:40
-	1084	(349/153).CCLS.	USPAT; US-PGPUB; EPO; JPO	2002/07/15 09:51
-	0	((349/153).CCLS.) and "first hardening"	USPAT; US-PGPUB; EPO; JPO	2002/07/15 09:53
-	0	((349/153).CCLS.) and "reaction prevention"	USPAT; US-PGPUB; EPO; JPO	2002/07/15 09:53
-	0	((349/153).CCLS.) and "pre polymerize"	USPAT; US-PGPUB; EPO; JPO	2002/07/15 09:54

_	0	((349/153).CCLS.) and "pre-polymerize"	USPAT;	2002/07/15
			US-PGPUB;	09:54
			EPO; JPO	
_	52	((349/153).CCLS.) and contamination	USPAT;	2002/07/15
		((0.00, 0.00,	US-PGPUB;	09:54
			EPO; JPO	
1_	27854	349\$.ccls.	USPAT;	2002/07/16
-	2/034	3499.0013.	US-PGPUB;	07:19
1				07.13
		2404 1 1 (EPO; JPO	2002/07/16
-	358	349\$.ccls. and (rotat\$5 near3 substrate)	USPAT;	2002/07/16
			US-PGPUB;	07:20
			EPO; JPO	
-	574	349\$.ccls. and (spin\$3 near3 substrate)	USPAT;	2002/07/16
			US-PGPUB;	07:21
			EPO; JPO	
-	260		USPAT;	2002/07/16
		substrate)) and (rotat\$5 near2 substrate)	US-PGPUB;	07:22
			EPO; JPO	
_	422	(349\$.ccls. and (spin\$3 near3 substrate))	USPAT;	2002/07/16
	1	and (spin\$3 near2 substrate)	US-PGPUB;	07:21
		did (Spines media substitute)	EPO; JPO	"
1_	231	//3/0¢ cale and /anine? nace?	USPAT;	2002/07/16
1 -	231	((349\$.ccls. and (spin\$3 near3		
		substrate)) and (spin\$3 near2 substrate))	US-PGPUB;	07:22
		and (spin\$3 near substrate)	EPO; JPO	0000 (07 (5 5
-	151	((349\$.ccls. and (rotat\$5 near3	USPAT;	2002/07/16
		substrate)) and (rotat\$5 near2	US-PGPUB;	07:22
1		substrate)) and (rotat\$5 near substrate)	EPO; JPO	
-	106	(((349\$.ccls. and (rotat\$5 near3	USPAT;	2002/07/16
		substrate)) and (rotat\$5 near2	US-PGPUB;	07:23
		<pre>substrate)) and (rotat\$5 near substrate))</pre>	EPO; JPO	
		and ("liquid crystal" same rotat\$5)		
-	103		USPAT;	2002/07/16
		<pre>substrate)) and (spin\$3 near2 substrate))</pre>	US-PGPUB;	07:24
		and (spin\$3 near substrate)) and ("liquid	EPO; JPO	
		crystal" same spin\$3)	210, 010	
1_	204	((((349\$.ccls. and (rotat\$5 near3	USPAT;	2002/07/16
-	204	substrate)) and (rotat\$5 near2	US-PGPUB;	07:24
			EPO; JPO	07.24
		substrate)) and (rotat\$5 near substrate))	EPO, OPO	
		and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3		i
		I I I I 1445 CCIS. AND ISDIDS I DEARS		1
i I				
1		<pre>substrate)) and (spin\$3 near2 substrate))</pre>		
		<pre>substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid")</pre>		7
		<pre>substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3))</pre>		
_	174	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3	USPAT;	2002/07/16
_	174	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2	USPAT; US-PGPUB;	2002/07/16 07:29
_	174	<pre>substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate))</pre>	-	
-	174	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2	US-PGPUB;	
_	174	<pre>substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate))</pre>	US-PGPUB;	
-	174	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5))	US-PGPUB;	
_	174	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate))	US-PGPUB;	
-	174	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate))	US-PGPUB;	
-		substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and (rotat\$5))	US-PGPUB; EPO; JPO	07:29
-	174 147	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near3 substrate)) and (rotat\$5 near3)	US-PGPUB; EPO; JPO USPAT;	2002/07/16
-		substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near3 substrate)) and ("liquid crystal" same spin\$3))) and @ad<20000419 (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near3	US-PGPUB; EPO; JPO USPAT; US-PGPUB;	07:29
-		substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate))	US-PGPUB; EPO; JPO USPAT;	2002/07/16
-		substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5))	US-PGPUB; EPO; JPO USPAT; US-PGPUB;	2002/07/16
-		substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3))))	US-PGPUB; EPO; JPO USPAT; US-PGPUB;	2002/07/16
-		substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate))	US-PGPUB; EPO; JPO USPAT; US-PGPUB;	2002/07/16
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-		substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near3 substrate)) and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near3 substrate))	US-PGPUB; EPO; JPO USPAT; US-PGPUB;	2002/07/16
_	147	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3))) and @ad<20000419 (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (rotat\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (rotat\$3 near3 substrate)) and (rotat\$5 near3 substrate)) and (spin\$3 near3 substrate)) and (rotat\$5 near3 substrate)	US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO	07:29 2002/07/16 07:30
_		substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$1 same spin\$3)) and @ad<20000419 (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near3 substrate)) and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (spin\$3 near3 substrate)) and (rotat\$5 near3) and (rotat\$5 near3)	US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT;	07:29 2002/07/16 07:30 2002/07/16
_	147	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) and @ad<20000419 (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate) and (spin\$3 near substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3	US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT; US-PGPUB;	07:29 2002/07/16 07:30
-	147	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) and @ad<20000419 (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near3 substrate))	US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT;	07:29 2002/07/16 07:30 2002/07/16
-	147	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) and @ad<20000419 (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near3 substrate))	US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT; US-PGPUB;	07:29 2002/07/16 07:30 2002/07/16
-	147	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) and @ad<20000419 (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near3 substrate))	US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT; US-PGPUB;	07:29 2002/07/16 07:30 2002/07/16
_	147	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) and @ad<20000419 (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near3 substrate))	US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT; US-PGPUB;	07:29 2002/07/16 07:30 2002/07/16
_	147	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near2 substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near substrate)) and (rotat\$5 near3 substrate).	US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT; US-PGPUB;	07:29 2002/07/16 07:30 2002/07/16
	147	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (resist same spin\$3)) and @ad<20000419) not (resist same spin\$3)) and @ad<20000419) not (resist same spin\$3) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near3 substrate))	US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT; US-PGPUB;	07:29 2002/07/16 07:30 2002/07/16
	147	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near3 substrate))	US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT; US-PGPUB;	07:29 2002/07/16 07:30 2002/07/16
_	147	substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and ("liquid crystal" same spin\$3)) (((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near2 substrate)) and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near2 substrate)) and (spin\$3 near substrate)) and (resist same spin\$3)) and @ad<20000419) not (resist same spin\$3)) ((((((349\$.ccls. and (rotat\$5 near3 substrate)) and (rotat\$5 near3 substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near2 substrate)) and (spin\$3 near3 substrate)) and (spin\$3 near2 substrate))	US-PGPUB; EPO; JPO USPAT; US-PGPUB; EPO; JPO USPAT; US-PGPUB;	07:29 2002/07/16 07:30 2002/07/16

	·			1 0000 /07 /16
-	146	((((((((349\$.ccls. and (rotat\$5 near3	USPAT; US-PGPUB;	2002/07/16 07:32
ļ	İ	substrate)) and (rotat\$5 near2 substrate)) and (rotat\$5 near substrate))	EPO; JPO	07:32
	1	and ("liquid crystal" same rotat\$5))	B10, 010	1
		((((349\$.ccls. and (spin\$3 near3		
		<pre>substrate)) and (spin\$3 near2 substrate))</pre>		
		and (spin\$3 near substrate)) and ("liquid		
	1	crystal" same spin\$3))) and @ad<20000419)		
		not (resist same spin\$3)) not (resist		
	100	same rotat\$5)) not (photo same rotat\$5)	110000	2002/07/16
-	123	<pre>((((((((((((((((((((((((((((((((((((</pre>	USPAT; US-PGPUB;	07:32
		substrate) and (rotat\$5 near substrate)	EPO; JPO	07.32
	!	and ("liquid crystal" same rotat\$5))	1220, 020	
		((((349\$.ccls. and (spin\$3 near3		
-		substrate)) and (spin\$3 near2 substrate))		
		and (spin\$3 near substrate)) and ("liquid		
		crystal" same spin\$3))) and @ad<20000419)		
		not (resist same spin\$3)) not (resist		
		same rotat\$5)) not (photo same rotat\$5)) not (polymer same rotat\$5)		
_	119	((((((((((349\$.ccls. and (rotat\$5 near3	USPAT;	2002/07/16
		substrate)) and (rotat\$5 near2	US-PGPUB;	07:33
1	1	substrate)) and (rotat\$5 near substrate))	EPO; JPO	
		and ("liquid crystal" same rotat\$5))		
1		((((349\$.ccls. and (spin\$3 near3		<u> </u>
	1	substrate)) and (spin\$3 near2 substrate))		
		and (spin\$3 near substrate)) and ("liquid		
		crystal" same spin\$3))) and @ad<20000419) not (resist same spin\$3)) not (resist		
		same rotat\$5)) not (photo same rotat\$5))		
		not (polymer same rotat\$5)) not (photo		
		same spin\$3)		
-	97	(((((((((((((((((((((((((((((((((((((USPAT;	2002/07/16
1		substrate)) and (rotat\$5 near2	US-PGPUB;	07:34
1]	substrate)) and (rotat\$5 near substrate))	EPO; JPO	
1		and ("liquid crystal" same rotat\$5)) ((((349\$.ccls. and (spin\$3 near3		
1		substrate)) and (spin\$3 near2 substrate))		
1		and (spin\$3 near substrate)) and ("liquid		
1		crystal" same spin\$3))) and @ad<20000419)		
1		not (resist same spin\$3)) not (resist		
1		same rotat\$5)) not (photo same rotat\$5))		•
i		not (polymer same rotat\$5)) not (photo		
l _	1	<pre>same spin\$3)) not (polymer same spin\$3) ((((((((((((349\$.ccls. and (rotat\$5 near3))))))))))))))))))))))))))))))))))))</pre>	USPAT;	2002/07/16
		substrate)) and (rotat\$5 near2	US-PGPUB;	07:36
	[<pre>substrate)) and (rotat\$5 near substrate))</pre>	EPO; JPO	
		and ("liquid crystal" same rotat\$5))		
		((((349\$.ccls. and (spin\$3 near3		
		substrate)) and (spin\$3 near2 substrate))		
		and (spin\$3 near substrate)) and ("liquid		
		crystal" same spin\$3))) and @ad<20000419) not (resist same spin\$3)) not (resist		
		same rotat\$5)) not (photo same rotat\$5))		
		not (polymer same rotat\$5)) not (photo		
		same spin\$3)) not (polymer same spin\$3))		
		and (fill same (rotat\$5 spin\$3))		
-	137	(349/189).CCLS.	USPAT;	2002/07/16
			US-PGPUB;	07:36
<u>_</u>		//2/0/190\ CCIC \ and /fill come /mataches	EPO; JPO	2002/07/16
-	1	((349/189).CCLS.) and (fill same (rotat\$5 spin\$3))	USPAT; US-PGPUB;	2002/07/16 07:37
		ah11142	EPO; JPO	0/13/
_	43	((349/189).CCLS.) and (rotat\$5 spin\$3)	USPAT;	2002/07/16
		,,,, (normala apanta)	US-PGPUB;	07:38
			EPO; JPO	
-	32	(((349/189).CCLS.) and (rotat\$5 spin\$3))	USPAT;	2002/07/16
		and ((rotat\$5 spin\$3) same liquid)	US-PGPUB;	07:39
L	L		EPO; JPO	

_	2	("5461502").PN.	USPAT;	2002/07/16
			US-PGPUB;	08:40
			EPO; JPO	
-	1	"09/838,385"	USPAT;	2002/11/25
			US-PGPUB;	10:45
			EPO; JPO	
-	499	(349/188-192).CCLS.	USPAT;	2002/11/25
			US-PGPUB;	13:16
			JPO	
-	531	(349/188-192).CCLS.	USPAT;	2003/07/10
			US-PGPUB;	11:20
			JPO	
-	34	((349/188-192).CCLS.) not @pd<20021101	USPAT;	2003/07/10
			US-PGPUB;	11:20
}			EPO; JPO	
-	2	"09/838385"	USPAT;	2004/03/11
			US-PGPUB;	14:46
			EPO; JPO	